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APPLICATION NO.	FI	LING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/894,261 06/28/2		06/28/2001	Gary M. Lewis	2386.2003-002	5056
21005	7590 09/12/2006			EXAMINER	
HAMILTO 530 VIRGIN	•	OK, SMITH &	NGUYEN, DUSTIN		
P.O. BOX 9	·		ART UNIT	PAPER NUMBER	
CONCORD,	MA 01	742-9133		2154	

DATE MAILED: 09/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/894,261	LEWIS ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Dustin Nguyen	2154		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D. (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on <u>05 July</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-17 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.	·		
Applicati	on Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority ι	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)			
3) 🔯 Infor	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>06/05/2006</u> .		Patent Application (PTO-152)		

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DETAILED ACTION

1. Claims 1-17 are presented for examination.

Specification

2. Examiner requests Applicants to update status of any related co-pending application as mentioned in the specification.

Response to Arguments

- 3. Applicant's arguments filed 06/05/2006 have been fully considered but they are not persuasive.
- 4. As per remarks, Applicants' argued that (1) Ho reference does not teach or suggest "dropping the detected idle data by not forwarding the data packet over the IP network" as recited in claim 1.
- 5. As to point (1), Ho discloses a system for transmitting multiple circuits by encapsulating in a CESIP packet [Figures 3 and 4; col 5, lines 33-36; and col 6, lines 12-21], and during configuration, the idle condition option determines how idle conditions are to be treated [col 6, lines 58-59], wherein if a sending IWF receives an idle pattern in the input data stream, there is

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not need to transmit the idle data, the idle data field for the idle circuit can be dropped off the packet [i.e. dropping the detected idle data] [col 6, lines 61-65] and in the case of a multiple circuit packet where only one circuit is idle, the idle circuit may be excluded from the packets being sent at 8 KHz and only included in one packet per second [i.e. not forwarding the packet data] [col 7, lines 3-6]. Furthermore, Yamano discloses the transmitter circuit does not transmit idle information, the transmitter circuit only sends information when there is meaningful packet data available to be sent [i.e. dropping the detected idle data by not forwarding the data packet over the IP network] [col 13, lines 64-67].

- 6. As per remarks, Applicants' argued that (2) Yamano does not teach or suggest 1) detects no data packets are received from another Internet node and 2) regenerates idle data to maintain a connection between modems.
- 7. As to point (2), it is rejected for similar reasons as stated in previous Office Action.

 Furthermore, Yamano discloses the receiver circuit detects the start of the idle information [i.e. detect no data packets are received from another Internet node] [col 4, lines 6-9] and an idle bit pattern, which is synchronous with the idle bit pattern generated by the associated transmitter circuit, is converted to a plurality of expected idle symbols, the expected idle symbols are then compared with a plurality of soft symbols which are generated by the receiver circuit in response to the analog signal using reduced processing within the receiver circuit [i.e. regenerate idle data to maintain a connection] [col 4, lines 9-18].

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Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 1, 2, 4-6, 8-10, 12-15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho [US Patent No 6,870,837], in view of Yamano et al. [US Patent No 6,445,731].
- 10. As per claim 1, Ho discloses the invention substantially as claimed including a method implemented in an Internet node for reducing Internet bandwidth used for VoIP modem, a first modem coupled to the Internet node and a second modem coupled to another Internet node, the method comprising:

upon detecting idle data received from the first modem over a GSTN network to forward to the other Internet node over the IP network in the payload of a data packet, dropping the detected idle data by not forwarding the data packet over the IP network [col 6, lines 58-col 7, lines 6].

Ho does not specifically disclose

upon detecting no data packets received from the other Internet node over an IP network to transmit to the first modem, regenerating idle data at the Internet node to transmit to the first

modem, the regenerated idle data used to maintain a connection between the first modem and the second modem.

Yamano discloses

upon detecting no data packets received from the other Internet node over an IP network to transmit to the first modem, regenerating idle data at the Internet node to transmit to the first modem, the regenerated idle data used to maintain a connection between the first modem and the second modem [i.e. framer 102 generates idle information] [102, Figure 1; col 1, lines 33-55; and col 3, lines 47-57].

It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Ho and Yamano because Yamano's teaching of generating idle data would allow communication devices to maintain their connections during silence period.

- 11. As per claim 2, Ho discloses the idle data is "FF" [i.e. idle flag can be set [i.e. set to 1]] [col 6, lines 57-64].
- 12. As per claim 4, Ho discloses wherein the Internet node is an Internet Gateway [120, 140, Figure 1; and col 3, lines 16-25].
- As per claims 5, 6 and 8, they are rejected for similar reasons as stated above in claims 1, 13. 2, and 4.

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14. As per claims 9, 10 and 12, they are rejected for similar reasons as stated above in claims

1, 2, and 4.

15. As per claim 13, it is rejected for similar reasons as stated above in claim 1.

16. As per claim 14, Ho discloses wherein the idle data is transmitted over the IP network in

a modem relay payload of the data packet [Figure 1; Abstract].

17. As per claim 15, Ho does not specifically disclose wherein the data packet includes an

RTP header. Yamano discloses wherein the data packet includes an RTP header [i.e. real time

information such as voice and video] [col 1, lines 21-31]. It would have been obvious to a

person skill in the art at the time the invention was made to combine the teaching of Ho and

Yamano because Yamano's teaching of RTP protocol would allow to transmit variety of traffic

data including voice and video.

18. As per claim 17, Yamano discloses establishing a modem connection between the first

modem and the second modem [Abstract; and col 1, lines 19-32].

19. Claims 3, 7 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ho [

US Patent No 6,870,837], in view of Yamano et al. [US Patent No 6,445,731], and further in

view of Cidon et al. [US Patent No 5,343,473].

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- 20. As per claim 3, Ho and Yamano do not specifically disclose wherein the idle data is "7E". Cidon discloses wherein the idle data is "7E" [col 4, lines 54-60]. It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Ho, Yamano and Cidon because Cidon's teaching would allow to identify and process any data information.
- 21. As per claims 7 and 11, they are rejected for similar reasons as stated above in claim 3.
- 22. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ho [US Patent No 6,870,837], in view of Yamano et al. [US Patent No 6,445,731], and further in view of Byers [US Patent No 5,959,996].
- 23. As per claim 16, Ho and Yamano do not specifically disclose wherein the idle data transmitted over the GSTN network is encoded in a PCM stream. Byers discloses wherein the idle data transmitted over the GSTN network is encoded in a PCM stream [col 2, lines 33-36]. It would have been obvious to a person skill in the art at the time the invention was made to combine the teaching of Ho, Yamano and Byers because Byers' teaching of PCM would allow to receive and transmit information data as is used in the telephone art and ISDN data [Byers, col 2, lines 33-37].

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24. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dustin Nguyen whose telephone number is (571) 272-3971. The examiner can normally be reached on flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Follansbee John can be reached on (571) 272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dustin Nguyen Examiner Art Unit 2154

JOHN FOLLANSBEE

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FATENT EXAMINER

JEHNOLOGY CENTER 2100